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NOTICE OF ALLOWANCE AND FEE(S) DUE

25537

7590

03/10/2010

VERIZON
PATENT MANAGEMENT GROUP
1320 North Court House Road
9th Floor
ARLINGTON, VA 22201-2909

EXAMINER

JOHNSON, CARLTON

ART UNIT PAPER NUMBER

2436

DATE MAILED: 03/10/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/679,222	10/03/2003	Gaston S. Ormazabal	03-1510	3274

TITLE OF INVENTION: SECURITY MANAGEMENT SYSTEM FOR MONITORING FIREWALL OPERATION

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1510	\$0	\$1510	\$1510	06/10/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of addres			Fee pap	(s) Transmittal. This ers. Each additional	certificate cannot be used :	or domestic mailings of the for any other accompanying ent or formal drawing, must
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1320 North Cou	AGEMENT GROU	P	I he Stat add tran	reby certify that this	Fee(s) Transmittal is bein	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
9th Floor ARLINGTON,	VA 22201-2909					(Depositor's name)
munitoron,	V11 22201 2505					(Signature)
			<u> </u>			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/679,222	10/03/2003		Gaston S. Ormazabal		03-1510	3274
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nonprovisional	NO	\$1510	\$0	\$1510	\$1510	06/10/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	J		
JOHNSON,	CARLTON	2436	726-011000			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to			
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is identi th in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CIT)	oatent. If an assigned assignment. Y and STATE OR CO	OUNTRY)	locument has been filed for
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_ ~ .	itus (from status indicated as SMALL ENT1TY statu	*	☐ b. Applicant is no lon	ger claiming SMALI	LENTITY status. See 37 C	FR 1 27(g)(2)
NOTE: The Issue Fee an	nd Publication Fee (if requ	uired) will not be accepted	d from anyone other than t			he assignee or other party in
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Typed or printed name			Registration No.			
an application. Confident submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this but /irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is estable depending upon the individual Chief Information Office	timated to take 12 m vidual case. Any con er. U.S. Patent and T	inutes to complete, including ments on the amount of ti rademark Office, U.S. Den	d by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/679,222	10/03/2003	Gaston S. Ormazabal	03-1510	3274	
25537 75	590 03/10/2010		EXAM	INER	
VERIZON			JOHNSON, CARLTON		
PATENT MANAGEMENT GROUP			ART UNIT	PAPER NUMBER	
1320 North Court 1 9th Floor ARLINGTON, VA			2436 DATE MAILED: 03/10/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 799 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 799 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/679,222	ORMAZABAL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	CARLTON V. JOHNSON	2436	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. This communication is responsive to <u>2-22-2010</u> .			
2. The allowed claim(s) is/are 2,4-6,10-12,18,19,22-24,28 and	<u>d 29</u> .		
 Acknowledgment is made of a claim for foreign priority ur All b)	been received. been received in Application No cuments have been received in this r	national stage application from the	
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (PTO-9 s Amendment / Comment or in the O	ffice action of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),	
3. M Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendn	e nent/Comment	
Paper No./Mail Date <u>2-22-2010</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner's Statement of Reasons for Allowance9. ☐ Other		

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael P. Straub Registration No. 36,941 on January 30, 2009.

The application has been amended as follows:

Claims 22 and 28 have been amended as follows:

Claim 22 (Currently Amended): A firewall test apparatus, comprising:

a memory;

a session signaling module for generating session signals used to initiate a communications session to be conducted through a firewall to be tested and to terminate a communications session after it has been initiated, and means for flooding said firewall with increasing amounts of session signal traffic used to initiate and terminate communications sessions;

a scanning probe generation module for generating probe signals to be directed at firewall ports;

a timing synchronization module for synchronizing operation of said firewall test

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apparatus to at least one of an external clock source and another firewall test apparatus; and

an analysis module for determining at least a port closing delay from a session signal time and a time probe signals are detected to stop passing through a port in said firewall corresponding to an initiated communications session, and for determining at least a port opening delay from a session signal time associated with a session signal used to initiate a communications session and a time probe signals are detected to start passing through a port in said firewall corresponding to the initiated communications session.

Claim 28 (Currently Amended): A firewall test system for testing a firewall, comprising; a memory;

a test signal generator for generating communications session initiation signals and probe signals directed at a first side of said firewall, including means for establishing a communications session through said firewall using session initiation signals prior to transmitting at least some of said probe signals, means for synchronizing test signal generation to an outside clock source, and means for flooding said firewall with session signals which trigger the opening or the closing of ports in said firewall; and

a test signal analyzer for detecting probe signals passing through said first side of said firewall to said second side of said firewall and for determining port closing delays as measured from the time the test signal analyzer detects a signal used to

close a port in said firewall and said analyzer ceases to detect test signals passing through said firewall, and means for synchronizing device operation with said outside clock source.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance.

Claim 2, 4, 10, 18, 22, 28 are allowed based on the following:

The prior art of record, considered individually or in combination, fails to fairly show or suggest: transmitting session initiation signals at an increasing rate through said firewall to cause the opening of ports in said firewall, measuring the effect of said increasing rate of session initiation signals on at least one of an opening and a closing delay time associated with opening a port and closing a port, respectively, in response to transmitted session initiation signals; and transmitting session termination signals at an increasing rate through said firewall to cause the closing of ports in said firewall, measuring the effect of said increasing rate of session termination signals on closing delay time associated with closing a port in response to transmitted session termination signals, in addition to the other limitations in a manner as recited in claims 2, 4 - 6, 10 - 12, 18, 19, 22 - 24, 28, 29.

Claims 5, 6 are allowed due to allowed base claim 4.

Claims 11, 12 are allowed due to allowed base claim 10.

Claim 19 is allowed due to allowed base claim 18.

Claims 23, 24 are allowed due to allowed base claim 22.

Claim 29 is allowed due to allowed base claim 28.

So as indicated by the above statements, Applicant's arguments have been considered persuasive, in light of the set of claims with limitations as well as the enabling portions of the specification. The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlton V. Johnson whose telephone number is 571-270-1032. The examiner can normally be reached on Monday thru Friday, 8:00 -5:00PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nasser Moazzami/ Supervisory Patent Examiner, Art Unit 2436

Carlton V. Johnson Examiner Art Unit 2436

CVJ February 16, 2010